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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/918,274	09/918,274 07/30/2001		Masahiko Namerikawa	815 001	2785	
25191	7590	11/14/2002				
BURR & F	BROWN		EXAMINER			
PO BOX 70		261 2060		BUDD, MARK OSBORNE		
SYRACUS	E, NY 13	261-7068				
				ART UNIT	PAPER NUMBER	
				2834		

DATE MAILED: 11/14/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 918274	Applicant(s) Namerihawa	et al
	Examiner M. B	Group Art Unit 7-8-34	
—The MAILING DATE of this communication appear	s on the cover sheet b	peneath the correspondence	address
Period for Reply	7		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	EXPIRE 3	MONTH(S) FROM THE MA	NLING DATE
 Extensions of time may be available under the provisions of 37 CFR 1. from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, such period shall, by default, Failure to reply within the set or extended period for reply will, by statut 	oly within the statutory minimexpire SIX (6) MONTHS from	num of thirty (30) days will be consident the mailing date of this communication.	ered timely.
Status	4.5		
Responsive to communication(s) filed on 10/3	0 2		_
☐ This action is FINAL.			
 Since this application is in condition for allowance except accordance with the practice under Ex parte Quayle, 1935 	or formal matters, pros C.D. 1 1; 453 O.G. 213	ecution as to the merits is clos.	osed in
Disposition of Claims			
(Claim(s) 2, 4-7, 9, 10, 12-20, 27	and 28	is/are pending in the ap	plication.
Of the above claim(s)			
Claim(s) / g			
\times Claim(s) $\frac{78}{2}$ Claim(s) $\frac{7}{2}$, $\frac{4-7}{9}$, $\frac{9}{10}$, $\frac{17-17}{17}$, $\frac{19}{9}$, $\frac{30}{9}$	39 and 78	is/are rejected.	
□ Claim(s)			
☐ Claim(s)			or election
Application Papers		requirement.	. 01 01001.011
☐ See the attached Notice of Draftsperson's Patent Drawing	Review, PTO-948.		
☐ The proposed drawing correction, filed on		□ disapproved.	
☐ The drawing(s) filed on is/are objecte	ed to by the Examiner.		
☐ The specification is objected to by the Examiner.			•
☐ The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. § 119 (a)-(d)			
 □ Acknowledgment is made of a claim for foreign priority und □ All □ Some* □ None of the CERTIFIED copies of the □ received. □ received in Application No. (Series Code/Serial Number 	e priority documents ha		
☐ received in Application No. (Genes Code/Serial Number		Rule 1 7.2(a)).	
*Certified copies not received:			
Attachment(s)	and	10(8-23-02)	
Attachment(s) Information Disclosure Statement(s), PTO-1449, Paper No.	(s).9/7-23-02)/1 In	nterview Summary, PTO-413	
☐ Notice of Reference(s) Cited, PTO-892		otice of Informal Patent Applica	ation, PTO-152
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948		Other	
Office	Action Summary		
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Claims 2, 4-7, 9, 10, 12-17, 19, 20, 27 and 28 rejected under 35 U.S.C. 103(a) as being unpatentable over Culp ('484), Culp (816) or Swada in view of Rudnick, Kohno or Heinz.

Culp and Swada teach the trapezoidal mufti-layer piezo electric actuator structure except for the specific lead architecture. They provide leads wire bonded to the sides of the stacks. However, each of Heinz Kohno and Rudnick teach providing solid state leads that both extend onto an end surface of a piezo electric stack so as to make assembly easier and provide stronger connections. Thus, for at least these reasons it would have been obvious to one of ordinary skill in the art to use an end surface of Swada or Culp as the lead connection surface.

Claim 18 is allowed.

RIMARY EXAMINER
ART LINIT 212

M BUDD/pj

11/12/02